

**REMARKS**

**I. Response to 35 U.S.C. §102 Rejection**

Claims 21-24, 26-33, and 35-39 stand rejected under 35 U.S.C. §102(b) as allegedly being anticipated by *Taraki et al.* (U.S. Patent No. 5,898,307). Applicants respectfully traverse this rejection, as explained in more detail below.

Generally, the invention of the present application can measure parameters between two different waveforms. For example, the present application can measure the set-up time *from one waveform to another*, the hold-time *from one waveform to another*, a time difference *from a point on one waveform to a point on another waveform*, or a phase difference *between the two waveforms*. The prior art of record fails to measure any parameter between two different waveforms. Instead, all measurements in the prior art are based on characteristics of individual waveforms. The claims, defined below, include features relating to this general concept and are believed to be allowable over the prior art of record.

**A. Claim 21**

Independent claim 21 is directed to a method, which displays first and second waveforms. The method further comprises displaying a plurality of icons, each icon corresponding to *a measurement to be performed of a parameter defining a relationship between the first waveform and the second waveform*. *Taraki et al.* fails to teach this claimed feature in at least the following respects.

*Taraki et al.* fails to disclose *a parameter defining a relationship between the first waveform and the second waveform*. Instead, *Taraki et al.* only measures parameters with respect to a single waveform. Although, *Taraki et al.* displays two waveforms simultaneously and can synchronize cursors 41 and 51 with cursors 41a and 51a (see FIG. 3), *Taraki et al.* fails to measure a parameter that relates the first waveform with the second waveform. Instead, points on each waveform can be measured with respect to other points on the same waveform. Each waveform is therefore measured individually.

In addition, the elements described to be “icons” by *Taraki et al.* are actually boxes in which text or other indicia may be displayed (col. 3, lines 43-44). The icons do not correspond to *a measurement to be performed*, as claimed. Apparently, the

icons of *Taraki et al.* correspond to display modes, e.g. Lab Scope mode, Freeze display mode, and Live mode (see col. 3, lines 41-63). However, *Taraki et al.* fails to disclose icons that correspond to a *measurement to be performed*, and particularly to a measurement of a *parameter defining a relationship between the first waveform and the second waveform*, as claimed.

Claim 21 also includes *performing a measurement based on the selected icon, the first point on the first waveform, and the second point on the second waveform*. *Taraki et al.* fails to disclose the claimed feature of performing a measurement based on a selected icon, a first point on the first waveform, and a second point on the second waveform. Not only does *Taraki et al.* fail to provide selecting an icon corresponding to a measurement to be performed, but also fails to perform a measurement based on a selected icon or one based on points from two different waveforms. Instead, all measurements by *Taraki et al.* are based on characteristics of the same waveform.

For at least these reasons, Applicants believe that claim 21 is allowable over *Taraki et al.* Claims 22-27 are allowable for at least the reason that they depend from allowable independent claim 21.

#### **B. Claim 28**

Independent claim 28 is directed to a measuring and testing instrument (MTI) comprising a display device, means for receiving user input, and means for measuring. The display device is configured to display a first waveform, a second waveform, and a plurality of icons, *each icon corresponding to a measurement to be performed of a parameter defining a relationship between the first waveform and the second waveform*. *Taraki et al.* fails to teach this claimed feature in at least the following respects.

*Taraki et al.* fails to disclose *a parameter defining a relationship between the first waveform and the second waveform*. Instead, *Taraki et al.* only measures parameters with respect to a single waveform. Although, *Taraki et al.* displays two waveforms simultaneously and can synchronize cursors with respect to the two waveforms, *Taraki et al.* fails to measure a parameter that relates the first waveform with the second waveform. Instead, each waveform is measured individually.

In addition, the elements described to be “icons” by *Taraki et al.* are actually boxes in which text or other indicia may be displayed (col. 3, lines 43-44). The icons do not correspond to *a measurement to be performed*, as claimed. Apparently, the icons of *Taraki et al.* correspond to display modes, e.g. Lab Scope mode, Freeze display mode, and Live mode (see col. 3, lines 41-63). *Taraki et al.* fails to disclose icons that correspond to *a measurement to be performed*, and particularly a measurement of *a parameter defining a relationship between the first waveform, and the second waveform*, as claimed.

Claim 28 also includes *means for measuring a parameter based on the selected icon, the first point, and the second point*, in which the first point is a point on the first waveform and the second point is a point on the second waveform. *Taraki et al.* fails to disclose this claimed feature of measuring a parameter that is based on a selected icon, a first point on the first waveform, and a second point on the second waveform. Not only does *Taraki et al.* fail to provide selecting an icon corresponding to a measurement to be performed, but also fails to measure a parameter based on a selected icon or one based on points from two different waveforms. Instead, all measurements by *Taraki et al.* are based on characteristics of the same waveform.

For at least these reasons, Applicants believe that claim 28 is allowable over *Taraki et al.* Claims 29-35 are allowable for at least the reason that they depend from allowable independent claim 28.

### C. Claim 36

Independent claim 36 is directed to a graphical user interface (GUI) comprising a waveform display region and a toolbar region. The toolbar region displays a plurality of icons, *each icon corresponding to a measurement to be performed of a parameter defining a relationship between the first waveform and the second waveform*. *Taraki et al.* fails to teach this claimed feature in at least the following respects.

*Taraki et al.* fails to disclose *a parameter defining a relationship between the first waveform and the second waveform*. Instead, *Taraki et al.* only measures parameters with respect to a single waveform. Although, *Taraki et al.* can display two waveforms simultaneously and synchronize cursors 41 and 51 for one waveform with cursors 41a and 51a of another (see FIG. 3), *Taraki et al.* fails to measure a parameter

that relates the first waveform with the second waveform. Instead, each waveform is measured individually.

In addition, the elements described to be “icons” by *Taraki et al.* are actually boxes in which text or other indicia may be displayed (col. 3, lines 43-44). The icons do not correspond to *a measurement to be performed*, as claimed. Apparently, the icons of *Taraki et al.* correspond to display modes, e.g. Lab Scope mode, Freeze display mode, and Live mode (see col. 3, lines 41-63). However, *Taraki et al.* fails to disclose icons that correspond to *a measurement to be performed*, and particularly a measurement of *a parameter defining a relationship between the first waveform and the second waveform*, as claimed.

## II. Response to 35 U.S.C. §103 Rejection

Claims 25 and 34 stand rejected under 35 U.S.C. §103(a) as allegedly being unpatentable over *Taraki et al.* (U.S. Patent No. 5,898,307) in view of *Miller et al.* (U.S. Patent No. 6,791,545). Applicants respectfully traverse this rejection.

It is believed that independent claims 21 and 28 are allowable over *Taraki et al.* for reasons presented above. It is further believed that *Miller et al.* does not overcome the above-noted deficiencies of *Taraki et al.* with respect to these independent claims. Thus, it is believed that claims 21 and 28 are allowable over *Taraki et al.* and *Miller et al.*, taken alone or in combination. It is also believed that dependent claims 25 and 34 are allowable for at least the reason that these claims depend from allowable independent claims 21 and 28.

*Miller et al.* seems to teach an oscilloscope having measurement icons displayed thereon. The oscilloscope displays the waveform being tested and a number of icons that show the measurements of the waveform. Each icon is a miniature rendering of the corresponding measurement. A user can select an icon to display the measurement at full size on the display. *Miller et al.* fails to teach or suggest that each icon corresponds to *a measurement to be performed*, as claimed. Instead, *Miller et al.* teaches displaying icons of measurements already made. *Miller et al.* does not teach an icon that directs which future measurement are to be performed. In other words, *Miller et al.* simply discloses a display strategy, but does not allow a user to select how measurements are to be performed.

Also, *Miller et al.* fails to teach or suggest performing a measurement based on a selected icon, a first point on a first waveform, and a second point on a second waveform, as claimed in claim 21, and fails to teach or suggest means for measuring a parameter based on a selected icon, a first point of a first waveform, and a second point of a second waveform, as claimed in claim 28. As discussed above, *Taraki et al.* fails to teach or suggest these claimed features as well.

Furthermore, claims 25 and 34 include additional aspects that are neither taught nor suggested by the combination of *Taraki et al.* and *Miller et al.* For example, *Taraki et al.* and *Miller et al.* fail to disclose **markers** or **marks** placed on the first and second points, the markers or marks being ***similar in appearance to the selected icon***, as claimed. Accordingly, for at least these reasons, claims 25 and 34 are believed to be allowable over the combination of *Taraki et al.* and *Miller et al.*

**CONCLUSION**

For at least the reasons presented above, Applicants respectfully submit that all rejections have been traversed, and that the pending claims 21-39 are in condition for allowance. Favorable reconsideration and allowance of the present application and all pending claims are hereby courteously requested. If, in the opinion of the Examiner, a telephonic conference would expedite the examination of this matter, the Examiner is invited to call the undersigned at (770) 933-9500.

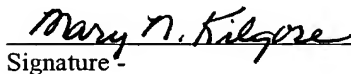
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